Sten Grillner

List of Publications by Year
in descending order

169 papers	11,808 citations	31974 53 h-index	36025 97 g-index
178 all docs	178 docs citations	178 times ranked	7208 citing authors

#	Article	IF	Citations
1	The Lamprey Forebrain â€" Evolutionary Implications. Brain, Behavior and Evolution, 2022, 96, 318-333.	1.7	17
2	ExSTED microscopy reveals contrasting functions of dopamine and somatostatin CSF-c neurons along the lamprey central canal. ELife, 2022, 11, .	6.0	9
3	The neural bases of vertebrate motor behaviour through the lens of evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200521.	4.0	14
4	Reciprocal interaction between striatal cholinergic and lowâ€threshold spiking interneurons â€" A computational study. European Journal of Neuroscience, 2021, 53, 2135-2148.	2.6	10
5	The execution of movement: a spinal affair. Journal of Neurophysiology, 2021, 125, 693-698.	1.8	6
6	Olfaction in Lamprey Pallium Revisitedâ€"Dual Projections of Mitral and Tufted Cells. Cell Reports, 2021, 34, 108596.	6.4	20
7	The CPGs for Limbed Locomotionâ€"Facts and Fiction. International Journal of Molecular Sciences, 2021, 22, 5882.	4.1	31
8	Basal ganglia reign through downstream control of motor centers in midbrain and brain stem while updating cortex with efference copy information. Neuron, 2021, 109, 1587-1589.	8.1	1
9	The tectum/superior colliculus as the vertebrate solution for spatial sensory integration and action. Current Biology, 2021, 31, R741-R762.	3.9	91
10	Evolution of the vertebrate motor system â€" from forebrain to spinal cord. Current Opinion in Neurobiology, 2021, 71, 11-18.	4.2	19
11	Dopaminergic and Cholinergic Modulation of Large Scale Networks in silico Using Snudda. Frontiers in Neural Circuits, 2021, 15, 748989.	2.8	1
12	Current Principles of Motor Control, with Special Reference to Vertebrate Locomotion. Physiological Reviews, 2020, 100, 271-320.	28.8	314
13	Basal Gangliaâ€"A Motion Perspective. , 2020, 10, 1241-1275.		16
14	The Evolution-Driven Signature of Parkinsonâ€™s Disease. Trends in Neurosciences, 2020, 43, 475-492.	8.6	22
15	The evolutionary origin of visual and somatosensory representation in the vertebrate pallium. Nature Ecology and Evolution, 2020, 4, 639-651.	7.8	48
16	The microcircuits of striatum in silico. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9554-9565.	7.1	69
17	The role of the optic tectum for visually evoked orienting and evasive movements. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15272-15281.	7.1	42
18	Individual Dopaminergic Neurons of Lamprey SNc/VTA Project to Both the Striatum and Optic Tectum but Restrict Co-release of Glutamate to Striatum Only. Current Biology, 2019, 29, 677-685.e6.	3.9	28

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19	Parkinson's disease: Is it a consequence of human brain evolution?. Movement Disorders, 2019, 34, 453-459.	3.9	37
20	Roles for globus pallidus externa revealed in a computational model of action selection in the basal ganglia. Neural Networks, 2019, 109, 113-136.	5.9	34
21	The stepwise development of the lamprey visual system and its evolutionary implications. Biological Reviews, 2018, 93, 1461-1477.	10.4	28
22	Evolution: Vertebrate Limb Control over 420 Million Years. Current Biology, 2018, 28, R162-R164.	3.9	15
23	The blueprint of the vertebrate forebrain â€" With special reference to the habenulae. Seminars in Cell and Developmental Biology, 2018, 78, 103-106.	5.0	14
24	The Enigmatic â€œIndirect Pathwayâ€•of the Basal Ganglia: A New Role. Neuron, 2018, 99, 1105-1107.	8.1	3
25	Cerebrospinal Fluid-Contacting Neurons Sense pH Changes and Motion in the Hypothalamus. Journal of Neuroscience, 2018, 38, 7713-7724.	3.6	27
26	Basal Ganglia Neuromodulation Over Multiple Temporal and Structural Scalesâ€"Simulations of Direct Pathway MSNs Investigate the Fast Onset of Dopaminergic Effects and Predict the Role of Kv4.2. Frontiers in Neural Circuits, 2018, 12, 3.	2.8	34
27	Commentary: Elimination of Left-Right Reciprocal Coupling in the Adult Lamprey Spinal Cord Abolishes the Generation of Locomotor Activity. Frontiers in Neural Circuits, 2018, 12, 34.	2.8	4
28	Griseum centrale, a homologue of the periaqueductal gray in the lamprey. IBRO Reports, 2017, 2, 24-30.	0.3	15
29	Direct Dopaminergic Projections from the SNc Modulate Visuomotor Transformation in the Lamprey Tectum. Neuron, 2017, 96, 910-924.e5.	8.1	39
30	The Lamprey Pallium Provides a Blueprint of the Mammalian Layered Cortex. Current Biology, 2017, 27, 3264-3277.e5.	3.9	65
31	The pretectal connectome in lamprey. Journal of Comparative Neurology, 2017, 525, 753-772.	1.6	21
32	The Spinal Cord Has an Intrinsic System for the Control of pH. Current Biology, 2016, 26, 1346-1351.	3.9	54
33	Worldwide initiatives to advance brain research. Nature Neuroscience, 2016, 19, 1118-1122.	14.8	107
34	The Basal Ganglia Over 500 Million Years. Current Biology, 2016, 26, R1088-R1100.	3.9	232
35	Ciliated neurons lining the central canal sense both fluid movement and pH through ASIC3. Nature Communications, 2016, 7, 10002.	12.8	99
36	Spatiotemporal interplay between multisensory excitation and recruited inhibition in the lamprey optic tectum. ELife, 2016, 5, .	6.0	36

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37	The basal ganglia downstream control of brainstem motor centresâ€"an evolutionarily conserved strategy. Current Opinion in Neurobiology, 2015, 33, 47-52.	4.2	70
38	The Lamprey Pallium Provides a Blueprint of the Mammalian Motor Projections from Cortex. Current Biology, 2015, 25, 413-423.	3.9	77
39	The intrinsic operation of the networks that make us locomote. Current Opinion in Neurobiology, 2015, 31, 244-249.	4.2	69
40	Action: The Role of Motor Cortex Challenged. Current Biology, 2015, 25, R508-R511.	3.9	7
41	Tectal microcircuit generating visual selection commands on gaze-controlling neurons. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1956-65.	7.1	51
42	Substance P Depolarizes Lamprey Spinal Cord Neurons by Inhibiting Background Potassium Channels. PLoS ONE, 2015, 10, e0133136.	2.5	7
43	A Cambrian origin for vertebrate rods. ELife, 2015, 4, .	6.0	39
44	Endogenous release of 5-HT modulates the plateau phase of NMDA-induced membrane potential oscillations in lamprey spinal neurons. Journal of Neurophysiology, 2014, 112, 30-38.	1.8	11
45	GABAergic and glycinergic inputs modulate rhythmogenic mechanisms in the lamprey respiratory network. Journal of Physiology, 2014, 592, 1823-1838.	2.9	22
46	Laterally projecting cerebrospinal fluidâ€contacting cells in the lamprey spinal cord are of two distinct types. Journal of Comparative Neurology, 2014, 522, 1753-1768.	1.6	38
47	Evolutionarily conserved organization of the dopaminergic system in lamprey: SNc/VTA afferent and efferent connectivity and D2 receptor expression. Journal of Comparative Neurology, 2014, 522, Spc1-Spc1.	1.6	0
48	Laterally Projecting Cerebrospinal Fluid-Contacting Cells in the Lamprey Spinal Cord Are of Two Distinct Types. Journal of Comparative Neurology, 2014, 522, Spc1-Spc1.	1.6	11
49	Gating of steering signals through phasic modulation of reticulospinal neurons during locomotion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3591-3596.	7.1	42
50	Megascience Efforts and the Brain. Neuron, 2014, 82, 1209-1211.	8.1	32
51	Motion with Direction and Balance. Neuron, 2014, 83, 515-517.	8.1	4
52	The lamprey blueprint of the mammalian nervous system. Progress in Brain Research, 2014, 212, 337-349.	1.4	45
53	Evolutionarily conserved organization of the dopaminergic system in lamprey: <scp>SN</scp>c/<scp>VTA</scp> afferent and efferent connectivity and <scp>D</scp>2 receptor expression. Journal of Comparative Neurology, 2014, 522, 3775-3794.	1.6	78
54	The evolutionary origin of the vertebrate basal ganglia and its role in action selection. Journal of Physiology, 2013, 591, 5425-5431.	2.9	127

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55	A computational model of visually guided locomotion in lamprey. Biological Cybernetics, 2013, 107, 497-512.	1.3	22
56	Neuronal Mechanisms of Respiratory Pattern Generation Are Evolutionary Conserved. Journal of Neuroscience, 2013, 33, 9104-9112.	3.6	42
57	Independent circuits in the basal ganglia for the evaluation and selection of actions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3670-9.	7.1	93
58	Evolutionarily conserved differences in pallial and thalamic shortâ€term synaptic plasticity in striatum. Journal of Physiology, 2013, 591, 859-874.	2.9	28
59	Dopamine Differentially Modulates the Excitability of Striatal Neurons of the Direct and Indirect Pathways in Lamprey. Journal of Neuroscience, 2013, 33, 8045-8054.	3.6	54
60	Fundamentals of Motor Systems. , 2013, , 599-611.		3
61	Evolutionary conservation of the habenular nuclei and their circuitry controlling the dopamine and 5-hydroxytryptophan (5-HT) systems. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E164-73.	7.1	126
62	Evolution of the basal ganglia: Dualâ€output pathways conserved throughout vertebrate phylogeny. Journal of Comparative Neurology, 2012, 520, 2957-2973.	1.6	106
63	The Dopamine D2 Receptor Gene in Lamprey, Its Expression in the Striatum and Cellular Effects of D2 Receptor Activation. PLoS ONE, 2012, 7, e35642.	2.5	31
64	Human Locomotor Circuits Conform. Science, 2011, 334, 912-913.	12.6	74
65	Striatal cellular properties conserved from lampreys to mammals. Journal of Physiology, 2011, 589, 2979-2992.	2.9	39
66	Neuroscience in recession?. Nature Reviews Neuroscience, 2011, 12, 297-302.	10.2	13
67	Evolutionary Conservation of the Basal Ganglia as a Common Vertebrate Mechanism for Action Selection. Current Biology, 2011, 21, 1081-1091.	3.9	266
68	On walking, chewing, and breathingâ€"A tribute to Serge, Jim, and Jack. Progress in Brain Research, 2011, 188, 199-211.	1.4	2
69	5-HT and dopamine modulates CaV1.3 calcium channels involved in postinhibitory rebound in the spinal network for locomotion in lamprey. Journal of Neurophysiology, 2011, 105, 1212-1224.	1.8	26
70	Dynamics of Synaptic Transmission between Fast-Spiking Interneurons and Striatal Projection Neurons of the Direct and Indirect Pathways. Journal of Neuroscience, 2010, 30, 3499-3507.	3.6	187
71	Simple cellular and network control principles govern complex patterns of motor behavior. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20027-20032.	7.1	109
72	Endocannabinoids Mediate Tachykinin-Induced Effects in the Lamprey Locomotor Network. Journal of Neurophysiology, 2009, 102, 1358-1365.	1.8	15

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73	Measured motion: searching for simplicity in spinal locomotor networks. Current Opinion in Neurobiology, 2009, 19, 572-586.	4.2	341
74	Selective projection patterns from subtypes of retinal ganglion cells to tectum and pretectum: Distribution and relation to behavior. Journal of Comparative Neurology, 2009, 517, 257-275.	1.6	48
75	Selective projection patterns from subtypes of retinal ganglion cells to tectum and pretectum: Distribution and relation to behavior. Journal of Comparative Neurology, 2009, 517, spc1-spc1.	1.6	24
76	Selective projection patterns from subtypes of retinal ganglion cells to tectum and pretectum: Distribution and relation to behavior. Journal of Comparative Neurology, 2009, 517, spc1-spc1.	1.6	0
77	The Molecular and Cellular Design of Networks in Motion. , 2009, , 11-23.		0
78	Switching gears in the spinal cord. Nature Neuroscience, 2008, 11, 1367-1368.	14.8	9
79	Neural bases of goal-directed locomotion in vertebratesâ€"An overview. Brain Research Reviews, 2008, 57, 2-12.	9.0	347
80	Diencephalic Locomotor Region in the Lampreyâ€"Afferents and Efferent Control. Journal of Neurophysiology, 2008, 100, 1343-1353.	1.8	37
81	Global Neuroinformatics: The International Neuroinformatics Coordinating Facility. Journal of Neuroscience, 2007, 27, 3613-3615.	3.6	36
82	Neurotech for Neuroscience: Unifying Concepts, Organizing Principles, and Emerging Tools. Journal of Neuroscience, 2007, 27, 11807-11819.	3.6	84
83	Tectal Control of Locomotion, Steering, and Eye Movements in Lamprey. Journal of Neurophysiology, 2007, 97, 3093-3108.	1.8	94
84	Modeling a vertebrate motor system: pattern generation, steering and control of body orientation. Progress in Brain Research, 2007, 165, 221-234.	1.4	60
85	Endogenous Tachykinin Release Contributes to the Locomotor Activity in Lamprey. Journal of Neurophysiology, 2007, 97, 3331-3339.	1.8	16
86	Descending GABAergic projections to the mesencephalic locomotor region in the lampreyPetromyzon marinus. Journal of Comparative Neurology, 2007, 501, 260-273.	1.6	47
87	GABA distribution in lamprey is phylogenetically conserved. Journal of Comparative Neurology, 2007, 503, 47-63.	1.6	72
88	Sodiumâ€dependent potassium channels of a Slackâ€like subtype contribute to the slow afterhyperpolarization in lamprey spinal neurons. Journal of Physiology, 2007, 585, 75-90.	2.9	75
89	Biological Pattern Generation: The Cellular and Computational Logic of Networks in Motion. Neuron, 2006, 52, 751-766.	8.1	802
90	Pattern of Motor Coordination Underlying Backward Swimming in the Lamprey. Journal of Neurophysiology, 2006, 96, 451-460.	1.8	51

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91	5-HT Modulation of Identified Segmental Premotor Interneurons in the Lamprey Spinal Cord. Journal of Neurophysiology, 2006, 96, 931-935.	1.8	20
92	Afferents of the lamprey optic tectum with special reference to the GABA input: Combined tracing and immunohistochemical study. Journal of Comparative Neurology, 2006, 499, 106-119.	1.6	36
93	Neuronal networks in motion from ion channels to behaviour. Anales De La Real Academia Nacional De Medicina, 2006, 123, 297-8.	0.0	9
94	Integrative neuroscience: linking levels of analyses. Current Opinion in Neurobiology, 2005, 15, 614-621.	4.2	40
95	Mechanisms of Rhythm Generation in a Spinal Locomotor Network Deprived of Crossed Connections: The Lamprey Hemicord. Journal of Neuroscience, 2005, 25, 923-935.	3.6	121
96	Mechanisms for selection of basic motor programs â€“ roles for the striatum and pallidum. Trends in Neurosciences, 2005, 28, 364-370.	8.6	551
97	Microcircuits in action â€“ from CPGs to neocortex. Trends in Neurosciences, 2005, 28, 525-533.	8.6	189
98	Innate versus learned movementsâ€”a false dichotomy?. Progress in Brain Research, 2004, 143, 1-12.	1.4	38
99	Muscle twitches during sleep shape the precise modules of the withdrawal reflex. Trends in Neurosciences, 2004, 27, 169-171.	8.6	9
100	From swimming to walking: a single basic network for two different behaviors. Biological Cybernetics, 2003, 88, 79-90.	1.3	71
101	The motor infrastructure: from ion channels to neuronal networks. Nature Reviews Neuroscience, 2003, 4, 573-586.	10.2	749
102	5-HT inhibits N-type but not L-type Ca2+ channels via 5-HT1A receptors in lamprey spinal neurons. European Journal of Neuroscience, 2003, 18, 2919-2924.	2.6	49
103	The pattern of motor coordination underlying the roll in the lamprey. Journal of Experimental Biology, 2003, 206, 2557-2566.	1.7	15
104	Fast and Slow Locomotor Burst Generation in the Hemispinal Cord of the Lamprey. Journal of Neurophysiology, 2003, 89, 2931-2942.	1.8	121
105	Chapter 8 The spinal locomotor CPG: a target after spinal cord injury. Progress in Brain Research, 2002, 137, 97-108.	1.4	27
106	Cellular bases of a vertebrate locomotor systemâ€“steering, intersegmental and segmental co-ordination and sensory control. Brain Research Reviews, 2002, 40, 92-106.	9.0	134
107	Mechanisms for lateral turns in lamprey in response to descending unilateral commands: a modeling study. Biological Cybernetics, 2002, 86, 1-14.	1.3	17
108	Slow Dorsal-Ventral Rhythm Generator in the Lamprey Spinal Cord. Journal of Neurophysiology, 2001, 85, 211-218.	1.8	17

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109	Lateral Turns in the Lamprey. II. Activity of Reticulospinal Neurons During the Generation of Fictive Turns. Journal of Neurophysiology, 2001, 86, 2257-2265.	1.8	54
110	Modeling of substance P and 5-HT induced synaptic plasticity in the lamprey spinal CPG: consequences for network pattern generation. Journal of Computational Neuroscience, 2001, 11, 183-200.	1.0	27
111	Ion channels of importance for the locomotor pattern generation in the lamprey brainstemâ€spinal cord. Journal of Physiology, 2001, 533, 23-30.	2.9	62
112	The activity-dependent plasticity of segmental and intersegmental synaptic connections in the lamprey spinal cord. European Journal of Neuroscience, 2000, 12, 2135-2146.	2.6	46
113	Crossed reciprocal inhibition evoked by electrical stimulation of the lamprey spinal cord. Experimental Brain Research, 2000, 134, 147-154.	1.5	14
114	Activity-Dependent Metaplasticity of Inhibitory and Excitatory Synaptic Transmission in the Lamprey Spinal Cord Locomotor Network. Journal of Neuroscience, 1999, 19, 1647-1656.	3.6	74
115	Long-lasting substance-P-mediated modulation of NMDA-induced rhythmic activity in the lamprey locomotor network involves separate RNA- and protein-synthesis-dependent stages. European Journal of Neuroscience, 1999, 11, 1515-1522.	2.6	32
116	Neural mechanisms potentially contributing to the intersegmental phase lag in lamprey. Biological Cybernetics, 1999, 81, 299-315.	1.3	48
117	Neural mechanisms potentially contributing to the intersegmental phase lag in lamprey. Biological Cybernetics, 1999, 81, 317-330.	1.3	43
118	Simulations of neuromuscular control in lamprey swimming. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 895-902.	4.0	117
119	Modulation of burst frequency by calcium-dependent potassium channels in the lamprey locomotor system: dependence of the activity level. Journal of Computational Neuroscience, 1998, 5, 121-140.	1.0	30
120	Co-localized neuropeptide Y and GABA have complementary presynaptic effects on sensory synaptic transmission. European Journal of Neuroscience, 1998, 10, 2856-2870.	2.6	38
121	Vertebrate Locomotion-A Lamprey Perspectivea. Annals of the New York Academy of Sciences, 1998, 860, 1-18.	3.8	88
122	Modeling of the Spinal Neuronal Circuitry Underlying Locomotion in a Lower Vertebratea. Annals of the New York Academy of Sciences, 1998, 860, 239-249.	3.8	23
123	Anatomical study of spinobulbar neurons in lampreys. Journal of Comparative Neurology, 1998, 397, 475-492.	1.6	21
124	The NO-cGMP pathway in the rat locus coeruleus: electrophysiological, immunohistochemical andin situhybridization studies. European Journal of Neuroscience, 1998, 10, 3508-3516.	2.6	32
125	Intrinsic function of a neuronal network â€" a vertebrate central pattern generator. Brain Research Reviews, 1998, 26, 184-197.	9.0	217
126	Substance P Modulates NMDA Responses and Causes Long-Term Protein Synthesis-Dependent Modulation of the Lamprey Locomotor Network. Journal of Neuroscience, 1998, 18, 4800-4813.	3.6	75

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127	Cellular and Synaptic Modulation Underlying Substance P-Mediated Plasticity of the Lamprey Locomotor Network. Journal of Neuroscience, 1998, 18, 8095-8110.	3.6	55
128	Co-localized neuropeptide Y and GABA have complementary presynaptic effects on sensory synaptic transmission. European Journal of Neuroscience, 1998, 10, 2856-2870.	2.6	1
129	Low-Voltage-Activated Calcium Channels in the Lamprey Locomotor Network: Simulation and Experiment. Journal of Neurophysiology, 1997, 77, 1795-1812.	1.8	53
130	Visual Pathways for Postural Control and Negative Phototaxis in Lamprey. Journal of Neurophysiology, 1997, 78, 960-976.	1.8	49
131	Substance P Modulates Sensory Action Potentials in the Lamprey Via a Protein Kinase Câ€Mediated Reduction of a 4â€Aminopyridineâ€Sensitive Potassium Conductance. European Journal of Neuroscience, 1997, 9, 2064-2076.	2.6	26
132	Organization of the lamprey striatum â€" transmitters and projections. Brain Research, 1997, 766, 249-254.	2.2	76
133	Intersegmental coordination in the lamprey: simulations using a network model without segmental boundaries. Biological Cybernetics, 1997, 76, 1-9.	1.3	55
134	Afferents of the lamprey striatum with special reference to the dopaminergic system: A combined tracing and immunohistochemical study. Journal of Comparative Neurology, 1997, 386, 71-91.	1.6	144
135	Afferents of the lamprey striatum with special reference to the dopaminergic system: A combined tracing and immunohistochemical study. Journal of Comparative Neurology, 1997, 386, 71-91.	1.6	1
136	Synaptic and nonsynaptic monoaminergic neuron systems in the lamprey spinal cord. Journal of Comparative Neurology, 1996, 372, 229-244.	1.6	54
137	Rostrocaudal distribution of 5-HT innervation in the lamprey spinal cord and differential effects of 5-HT on fictive locomotion. , 1996, 374, 278-290.		35
138	Neuro-specialist. Nature, 1996, 383, 34-34.	27.8	2
139	Control of lamprey locomotor neurons by colocalized monoamine transmitters. Nature, 1995, 374, 266-268.	27.8	103
140	5-HT innervation of reticulospinal neurons and other brainstem structures in lamprey. Journal of Comparative Neurology, 1994, 342, 23-34.	1.6	20
141	Extrasynaptic localization of taurine-like immunoreactivity in the lamprey spinal cord. Journal of Comparative Neurology, 1994, 347, 301-311.	1.6	12
142	Dorsal root and dorsal column mediated synaptic inputs to reticulospinal neurons in lampreys: Involvement of glutamatergic, glycinergic, and GABaergic transmission. Journal of Comparative Neurology, 1993, 327, 251-259.	1.6	50
143	Anatomical and physiological study of brainstem nuclei relaying dorsal column inputs in lampreys. Journal of Comparative Neurology, 1993, 327, 260-270.	1.6	51
144	Possible morphological substrates for GABA-mediated presynaptic inhibition in the lamprey spinal cord. Journal of Comparative Neurology, 1993, 328, 463-472.	1.6	25

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145	Effects of serotonin on fictive locomotion coordinated by a neural network deprived of NMDA receptor-mediated cellular properties. Experimental Brain Research, 1993, 93, 391-8.	1.5	23
146	Role of dermal photoreceptors and lateral eyes in initiation and orientation of locomotion in lamprey. Behavioural Brain Research, 1993, 54, 107-110.	2.2	50
147	Synaptic potentials and transfer functions of lamprey spinal neurons. Biological Cybernetics, 1992, 67, 123-131.	1.3	24
148	Two types of motoneurons supplying dorsal fin muscles in lamprey and their activity during fictive locomotion. Journal of Comparative Neurology, 1992, 321, 112-123.	1.6	26
149	Putative GABAergic input to axons of spinal interneurons and primary sensory neurons in the lamprey soinal cord as shown by intracellular Lucifer yellow and GABA immunohistochemistry. Brain Research, 1991, 538, 313-318.	2.2	35
150	A new population of neurons with crossed axons in the lamprey spinal cord. Brain Research, 1991, 564, 143-148.	2.2	51
151	Co-localized GABA and somatostatin use different ionic mechanisms to hyperpolarize target neurons in the lamprey spinal cord. Neuroscience Letters, 1991, 134, 93-97.	2.1	58
152	Presynaptic GABAAand GABABReceptor-mediated Phasic Modulation in Axons of Spinal Motor Interneurons. European Journal of Neuroscience, 1991, 3, 107-117.	2.6	110
153	Distribution of histaminergic neurons in the brain of the lampreylampetra fluviatilisas revealed by histamine-immunohistochemistry. Journal of Comparative Neurology, 1990, 292, 435-442.	1.6	46
154	Three types of GABA-immunoreactive cells in the lamprey spinal cord. Brain Research, 1990, 508, 172-175.	2.2	68
155	Further evidence for excitatory amino acid transmission in lamprey reticulospinal neurons: Selective retrograde labeling with (3H)D-aspartate. Journal of Comparative Neurology, 1989, 281, 225-233.	1.6	20
156	Locomotion in Lamprey and Trout: the Relative Timing of Activation and Movement. Journal of Experimental Biology, 1989, 143, 559-557.	1.7	170
157	Immunohistochemical studies of cholecystokininlike peptides and their relation to 5-HT, CGRP, and bombesin immunoreactivities in the brainstem and spinal cord of lampreys. Journal of Comparative Neurology, 1988, 271, 1-18.	1.6	56
158	A new class of small inhibitory interneurones in the lamprey spinal cord. Brain Research, 1988, 438, 404-407.	2.2	65
159	Survey of neuropeptide-like immunoreactivity in the lamprey spinal cord. Brain Research, 1987, 408, 299-302.	2.2	42
160	Immunohistochemical demonstration of some putative neurotransmitters in the lamprey spinal cord and spinal ganglia: 5-hydroxytryptamine-, tachykinin-, and neuropeptide-Y-immunoreactive neurons and fibers. Journal of Comparative Neurology, 1985, 234, 501-522.	1.6	105
161	Possible target neurons of 5-hydroxytryptamine fibers in the lamprey spinal cord: Immunohistochemistry combined with intracellular staining with lucifer yellow. Journal of Comparative Neurology, 1985, 234, 523-535.	1.6	51
162	The effect of dorsal root transection on the efferent motor pattern in the cat's hindlimb during locomotion. Acta Physiologica Scandinavica, 1984, 120, 393-405.	2.2	193

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163	Phasic variations of extracellular potassium during fictive swimming in the lamprey spinal cord in vitro. Acta Physiologica Scandinavica, 1984, 120, 457-463.	2.2	27
164	How Does The Lamprey Central Nervous System Make The Lamprey Swim?. Journal of Experimental Biology, 1984, 112, 337-357.	1.7	41
165	Peripheral control of the cat's step cycle. Acta Physiologica Scandinavica, 1983, 118, 229-239.	2.2	266
166	â€œA new synthesis?â€• Behavioral and Brain Sciences, 1981, 4, 624-625.	0.7	0
167	Can mammalian pattern generators be understood?. Behavioral and Brain Sciences, 1980, 3, 549-550.	0.7	1
168	Command neurons or central program controlling system?. Behavioral and Brain Sciences, 1978, 1, 23-24.	0.7	3
169	Spinal Motor Functions in Lamprey. , 0, , 127-145.		2